

Fig. 1

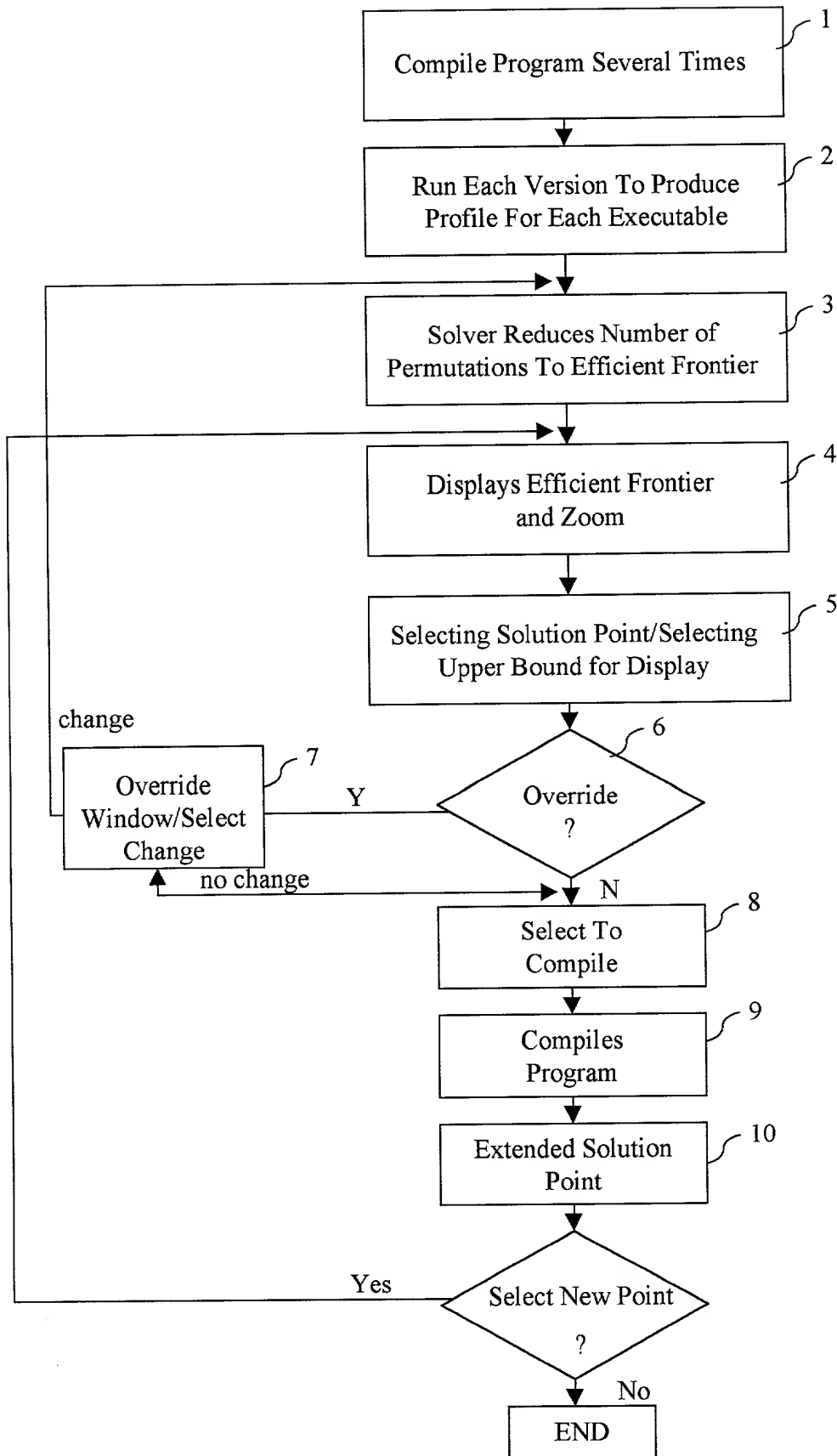


Fig. 2

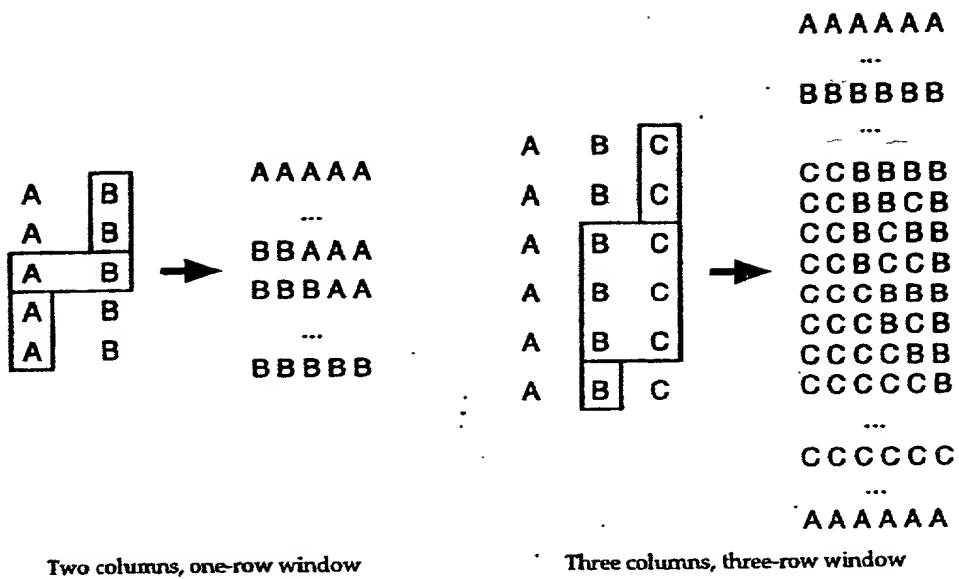


Figure 3: "Linear" Solution Generation

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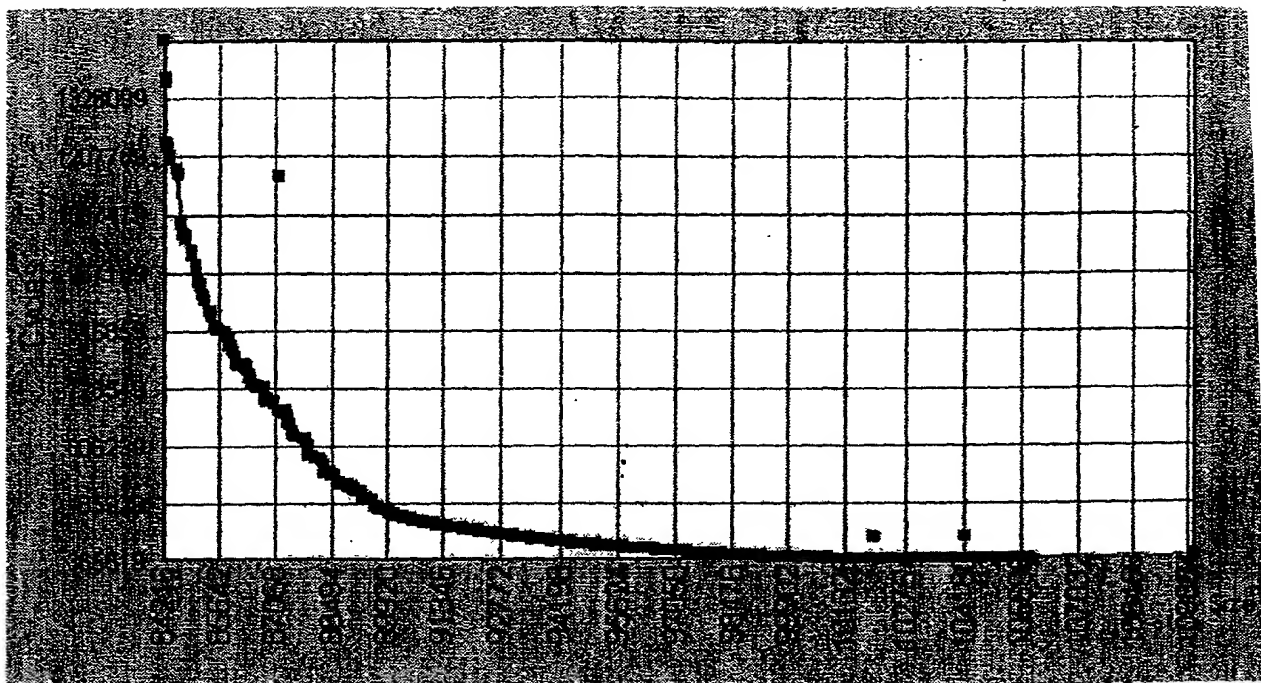


Figure 5

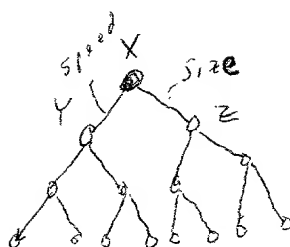


Fig 4

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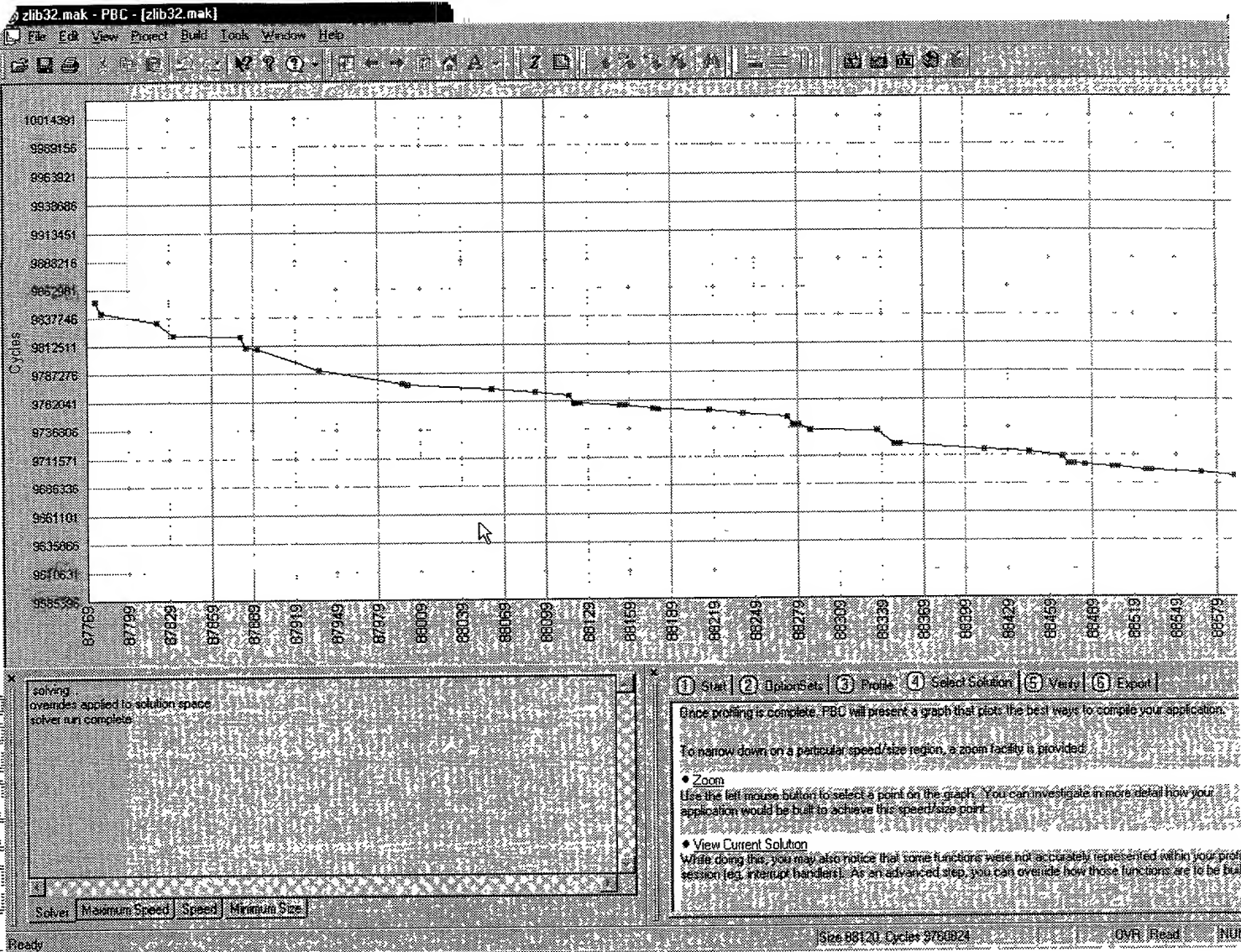


Fig-6

Function	Cycles	Size	OptionSet	Options
decoder_homing_fra...	26	80	Size	-o3 -o10 -ms2
rx_dtx	99	900	Minimum Size	-o3 -o10 -ms3
D_plst_5	641	1716	Minimum Size	-o3 -o10 -ms3
Q_plst_5	744	1448	Minimum Size	-o3 -o10 -ms3
decoder_reset	296	368	Minimum Size	-o3 -o10 -ms3
Int_lpc2	296	224	Minimum Size	-o3 -o10 -ms3
Lst_wt	770	236	Minimum Size	-o3 -o10 -ms3
main	2919	1680	Minimum Size	-o3 -o10 -ms3
reset_rx_dtx	274	172	Minimum Size	-o3 -o10 -ms3
reset_tx_dtx	315	184	Minimum Size	-o3 -o10 -ms3
Enc_lag6	242	344	Minimum Size	-o3 -o10 -ms3
vad_reset	506	184	Size	-o3 -o10 -ms2
Int_hn	516	272	Minimum Size	-o3 -o10 -ms3

Figure 7

gsm51.oif

Overrides

Rule

☒ Smallest
 ☐ Fastest
 ☐ None

OptionSet

☒ Maximum Speed
 ☐ Aggressive Speed
 ☐ Speed
 ☐ Size
 ☐ Minimum Size

Cycles

67480
 67864
 68380
 217240
 292348

Size

6364
 6316
 6492
 5048
 5056

Options

-o3 -o0
 -o3 -o0 -ms0
 -o3 -o0 -ms1
 -o3 -o0 -ms2
 -o3 -o0 -ms3

Function	OptionSet/Rule
Init_Pre_Process	None
set_sign	None
search_1040	None
q_p	None
cor_h_x	None
cor_h	None
build_code	None
code_1040_35bits	None
Code_12k2	None
Vq_subvec_s	None
Vq_subvec	None
lsl_wl	None
q_rkt_5	None

Figure 8

Estimated	Actual
Cycles: 414834	Cycles: 414834
Size: 53024	Size: 53068
Unprofiled Cycles: 80458	Unprofiled Cycles: 80532
Unprofiled Size: 36388	Unprofiled Size: 36436
Total Cycles: 495292	Total Cycles: 495365
Total Size: 89412	Total Size: 89504

Function	Estimated Cycles	Estimated Size	OptionSet	Profiled Cycles	Profiled Size	Delta Cycle	Delta Size
search_10i40	66380	6492	Speed	66380	6516	0	-24
Syn_filt	32928	744	Maximum Spe...	32928	744	0	0
Vq_subvec	25520	320	Minimum Size	25520	320	0	0
Lag_max	22404	708	Maximum Spe...	22404	708	0	0
Vq_subvec_s	19769	616	Minimum Size	19769	616	0	0
Norm_Corr	16466	1280	Maximum Spe...	16466	1280	0	0
Coder_12k2	16030	3520	Minimum Size	16030	3520	0	0

Figure 9